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DETAIL

the recording plane 11 through a scanning head 9 is detected by a photodetector 13. A scanning control head 20 integrally juxtaposed at the scanning head 9 is provided with a semiconductor laser 15 as its own original light source, lens system and optic/electric converting element 19 and generates a tracking error detect signal for matching the position of the scanning head 9 with the track of the recording plane.

LEGAL STATUS

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PATENT ABSTRACTS OF JAPAN

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(71)Applicant: MATSUSHITA ELECTRIC IND
CO LTD

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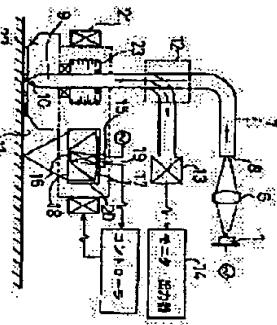
(72)Inventor: KIYOMATSU SATOSHI
KOJIMA KOKI
KONO HARUHIKO

(54) NEAR-FIELD OPTICAL SCAN RECORDING AND REPRODUCING DEVICE

(57)Abstract:

PURPOSE: To improve the accuracy of tracking control and to make a disk-shaped recording medium usable in the case of a high-density recording/reproducing utilizing evanescent light.

CONSTITUTION: Laser beams radiated from a semiconductor laser 1 are converged by a lens 6 and applied through an opening 8 to an optical fiber. A scanning head 9 formed at the head part of the tip of the optical fiber 7 is provided with an opening 10, of which diameter is equal or smaller than the wavelength of the laser beam, on a projecting end face and a recording plane 11 is moved relatively to the opening 10. The reflected light extracted from



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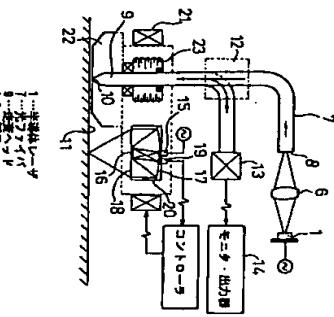
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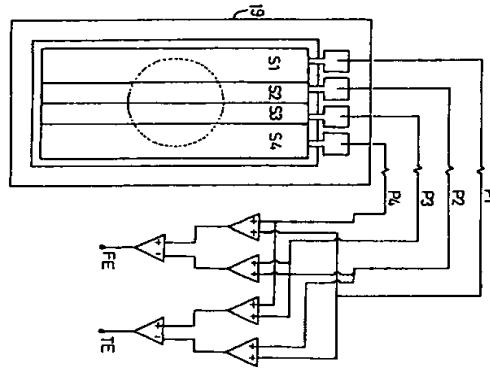
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DETAIL

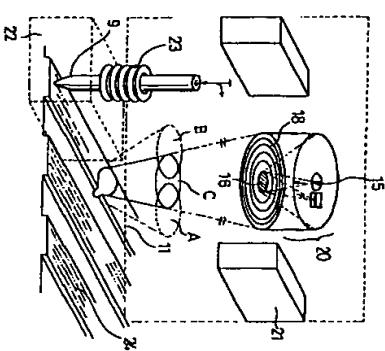
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